***Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_***

CW#92: Apply Congruence and Triangles Geometry

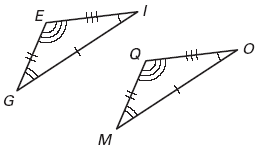
|  |  |
| --- | --- |
| **CRS** | PPF 601 – Apply properties of 30-60-90, 45-45-90, similar, and congruent triangles |
| **Objective** | 6.6 Identify corresponding sides and angles of congruent triangles |

**Mixed Review.**

|  |  |
| --- | --- |
| Directions: Classify the triangles by angles and sides. For example, acute isosceles, obtuse scalene… | |
| 1) | 2) |
| 3) | 4) |
| 5) Find ∠GAB | 6) Find the value of x and ∠BDC. |

**New Stuff!** Congruent figures = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
| Congruent? | Congruent? | Congruent? |

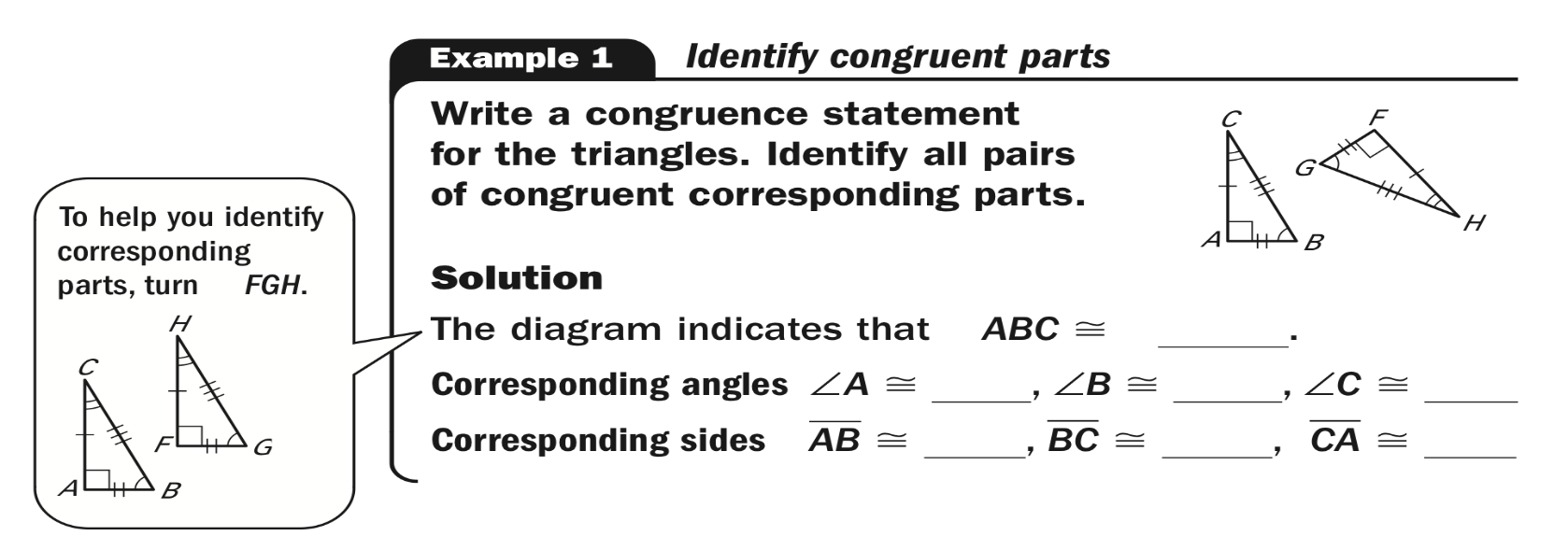


Corresponding parts = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

When you write a congruence statement for two polygons, always list the corresponding vertices in the same \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

You can write congruence statements in more than one way, as long as the vertices are listed in the correct order for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

|  |  |  |
| --- | --- | --- |
| Correct! | Correct! | Incorrect! |



|  |  |
| --- | --- |
| **Problem set 1:** List corresponding angles and sides based on the given information | |
| 1)EGI and QMO are congruent    List corresponding angles:   1. \_\_\_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_\_\_\_\_\_   List corresponding sides:   1. \_\_\_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_\_\_\_\_\_ | 2) TRV and YXZ are congruent    List corresponding angles:   1. \_\_\_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_\_\_\_\_\_   List corresponding sides:   1. \_\_\_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Problem set #2**    What does it mean if something is corresponding?  Does the order of the vertices matter? Why or why not? | |
| **Problem set 3:**    Did the order matter when labeling the sides and angles?  What are you indicating when you label the sides and angles? | |
| **Problem set 4:**    When writing a congruence statement what are you saying about the angles and sides?  Does the order matter? Why or Why not? | |
| **Problem set 5:** Mark the angles and sides of each pair of triangles to indicate that they are congruent. | |
| 1) | 2) |
| 3) | 4) |
| **Problem set 6:** Complete each congruence statement by naming the corresponding angle or side. | |
| 1) | 2) |
| 3) | 4) |
| **Problem set 7:** Write a statement that indicates the triangles in each pair are congruent | |